

## WHAT IS CLAIMED IS:

1. A compressed image data reproducing apparatus, comprising:

a storage device for memorizing a structure of a data file in which an interval emerging an intra-coded frame and inter-coded frames composed of using a forward direction prediction from said intra-coded frame or an inter-coded frame at the past time, in a group of pictures (GOP) is variable as control data; and

a system control circuit for executing motion compensation used a time correlation at the time when image data compressed and coded by variable length codes are reproduced, wherein:

a high speed picture search is executed by using said control data.

2. A compressed image data reproducing apparatus in accordance with claim 1, wherein:

said system control circuit makes images reproduce sequentially at an arbitrary frame point by using plural data files in which said interval emerging said intra-coded frame and said inter-coded frames in said GOP is different and using said control data.

3. A compressed image data reproducing apparatus in accordance with claim 1, further comprising:

a first decoder which obtains compressed image data through a bus and decodes obtained compressed image data and outputs decoded data as one of reproduced image data;

a second decoder which obtains compressed image data through said bus and decodes obtained compressed image data and outputs decoded data as the other reproduced image data; and

a selector which outputs reproduced image data by changing

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10 over said one of reproduced image data and said other reproduced image data in a frame unit time, wherein

non-linear editing reproduction is executed by using said reproduced image data outputted from said selector.

4. A compressed image data reproducing apparatus in accordance with claim 2, further comprising:

a first decoder which obtains compressed image data through a bus and decodes obtained compressed image data and outputs decoded data as one of reproduced image data;

a second decoder which obtains compressed image data through said bus and decodes obtained compressed image data and outputs decoded data as the other reproduced image data; and

a selector which outputs reproduced image data by changing over said one of reproduced image data and said other reproduced image data in a frame unit time, wherein

non-linear editing reproduction is executed by using said reproduced image data outputted from said selector.

5. A compressed image data reproducing apparatus in accordance with claim 1, wherein:

said system control circuit provides a quantizer and a variable length coding section and plural encoding sections which work in parallel.

6. A compressed image data reproducing apparatus in accordance with claim 2, wherein:

said system control circuit provides a quantizer and a variable length coding section and plural encoding sections which work in parallel.

7. A compressed image data reproducing method comprising

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the steps of:

memorizing a structure of a data file in which an interval  
emerging an intra-coded frame and inter-coded frames composed of using  
5 a forward direction prediction from said intra-coded frame or an inter-  
coded frame at the past time, in a GOP is variable as control data; and

controlling a system for executing motion compensation used a  
time correlation at the time when image data compressed and coded by  
variable length codes are reproduced, wherein:

10 a high speed picture search is executed by using said control  
data.

8. A compressed image data reproducing method in  
accordance with claim 7, wherein:

said controlling step makes images reproduce sequentially at  
an arbitrary frame point by using plural data files in which said interval  
5 emerging said intra-coded frame and said inter-coded frames in said GOP  
is different and using said control data.

9. A compressed image data reproducing method in  
accordance with claim 7, further comprising the steps of:

a first decoding for obtaining compressed image data through a  
bus and decoding obtained compressed image data and outputting  
5 decoded data as one of reproduced image data;

a second decoding for obtaining compressed image data through  
said bus and decoding obtained compressed image data and outputting  
decoded data as the other reproduced image data; and

selecting either one of said reproduced image data and  
10 outputting said reproduced image data by changing over said one of  
reproduced image data and said other reproduced image data in a frame  
unit time, wherein

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non-linear editing reproduction is executed by using said reproduced image data outputted from said selecting step.

10. A compressed image data reproducing method in accordance with claim 8, further comprising the steps of:

5 a first decoding for obtaining compressed image data through a bus and decoding obtained compressed image data and outputting decoded data as one of reproduced image data;

a second decoding for obtaining compressed image data through said bus and decoding obtained compressed image data and outputting decoded data as the other reproduced image data; and

10 selecting either one of said reproduced image data and outputting said reproduced image data by changing over said one of reproduced image data and said other reproduced image data in a frame unit time, wherein

non-linear editing reproduction is executed by using said reproduced image data outputted from said selecting step.

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